LEAD Audio LA-100

Background - Development of the LA-100

The amazing sound quality of the DAC LA-100 is thanks to the developer Mr. Søren Mac Larsen reached. He has been working in this environment in Denmark for more than 20 years. Soren Mac Larsen has developed and was responsible for many remarkable digital algorithms for Hi-Fi playback responsible for the development of high-end products, CD players, amplifiers and digital Room Equalizer (DRC).
With the DAC LA 100 he is part of his philosophy of digital and analogue audio products high fidelity, followed. Enjoy the detailed sound reproduction of the LA-100.

Inputs:
1x USB 2.0 PC compatible
1xS/PDIF RCA 75ohm input (coax) CDP/DVD
1xS/PDIF Toslink Input (Optical) to CDP/DVD
(Toshiba parts for Toslink security and quality are maximized)

Outputs :
2 x RCA to amplifier
1 x 6.3 mm headphone jack

Product specification

DA Converter: Burr Brown 24bit/192KHz

Digital Input Sampling Frequency USB: 44.1KHz to 48KHz

Digital input: 20KHz to 216KHz

Frequency Response: dc to 20KHz

THD at 1KHz <0.001% by design

S/N Ratio >120dB (A weighting)

Jitter <100ps (ASR)

Line output 1V RMS max. 600 ohms

Headphone output max 3.6V RMS max (0.5V RMS 32ohm)

Power consumption <5W

Features of the LA-100

LA-100 is the first model from the Lead Audio product line. It is a high-end DAC
(digital to analogue converter) plus headphone amplifier. 20 years of experience and expertise
by Søren Mac Larsen regarding circuit designs, product planning, design, production and quality
Managements come into their own with this device.
The expanding digital sources, which over the existing PC sound cards and low
quality CDP/DVDs are played exhibit a significant loss in sound quality,
"Noise and signal distortion" The needs of consumers who want better sound quality
wanted, these can not do justice. In order to fulfill this, technology and parts
carefully selected, which otherwise can only be found in very expensive high-end devices.

1. Use of audio parts used in expensive Hi-Fi playback products.
(Burr Brown's PCM 1796 DA Converter, German Wima capacitor for the power supply, etc.)
2. Circuits use Denmark's high-tech noise reduction expertise
(Collpitz oscillator, 2-step buffering clock)
3. To avoid jitter noise coming from digital sources, the
uses sample rate technology otherwise only found on high-end playback products.
4. Direct current "coupled circuits" are used for better sound quality

With the above parts and techniques we were able to achieve the best sound quality, in
Comparison to similar products in the same price range. The LA 100 allows input selection
between digital USB, CD, optical and coax. The output can be between headphones and line
be switched, which contributes to comfort and high sound quality.
The front panel is made of brushed aluminum and black anodized. All in all, a high quality
Design combined with the security of offering a quality product. The housing is made of aluminum
and SPC to ensure protection against radiation, heat, vibration, shock and ESD.
(The KCC approval number on the product guarantees this).

User-friendly handling is ensured by microswitches on the front.
Our motto "reasonable price, high quality for everyone" is confirmed with the LA-100
and enables you to enjoy the best sound quality at a reasonable price.

Thank you for trusting our LA-100. We are convinced that you will have endless listening pleasure
will have with it.
The compact form of the DAC is thanks to the use of SMD components and an external
feeding possible.

The DAC LA-100 is an innovative design with:
192kHz/24bit upsampling DAC (Burr Brown)
Professional grade sample rate converter to eliminate audio jitter.
Low Phase Noise "Colpitts clock with an AT cut crystal.
The analogue output signal is DC coupled and without capacitors, which reduces the sound could affect.
The analog power supply is a series/shunt circuit with a very low noise level.
The analog signal processing is done with ultra "low noise" and low-distortion opamps (better Version than the normally used NE5532/34)
The high efficiency of the power supply ensure minimal power consumption.
There are three possible inputs to the DAC LA-100; USB, SPDIF Optical and Coaxial.
The USB input allows the DAC LA-100 to be connected to a PC as a high quality DAC/soundcard to work and true Hi-Fi playback from your desktop PC, Media PC, to enjoy.

Computer connection:
No "drivers" need to be installed. Connect your LA 100 to the PC, wait, until the PC discovers and accepts the DAC. The combination is now ready to play.
Two additional digital inputs are possible SPDIF Optical (Toslink) and Coaxial (RCA).
You can use these inputs with the digital output from CD or DVD.
Your DAC LA-100 can only be as good as the components it connects to.
Please do not compromise the sound with the rest of your equipment such as headphones, amplifiers, speaker or cable.

We are proud of this product and hope you enjoy it too.

LEAD AUDIO ApS

Denmark